STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/564,429_
Source: _1 FUP_
Date Processed by STIC: _11/20/06_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
      http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):** U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

IFWP

RAW SEQUENCE LISTING   DATE: 01/20/2006
PATENT APPLICATION: US/10/564,429   TIME: 12:07:31

Input Set : E:\son084.txt
Output Set: N:\CRF4\01202006\J564429.raw

```
   3 <110> APPLICANT: BUSCHLE, MICHAEL
   4       FRISCH, JURGEN
   5       KLADE, CHRISTOPH
   6       LINGNAU, KAREN
   7       ZAUNER, WOLFGANG
   8       ZETTLMEISSL, GERD
  10 <120> TITLE OF INVENTION: HCV vaccines
  12 <130> FILE REFERENCE: SONN:084US
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/564,429
C--> 14 <141> CURRENT FILING DATE: 2006-01-11
  14 <150> PRIOR APPLICATION NUMBER: PCT/EP2004/007540
  15 <151> PRIOR FILING DATE: 2004-07-09
  17 <150> PRIOR APPLICATION NUMBER: EP 04450062.7
  18 <151> PRIOR FILING DATE: 2004-07-11
  20 <150> PRIOR APPLICATION NUMBER: EP 03450171.8
  21 <151> PRIOR FILING DATE: 2004-03-12
  23 <160> NUMBER OF SEQ ID NOS: 156
  25 <170> SOFTWARE: PatentIn version 3.1
  27 <210> SEQ ID NO: 1
  29 <211> LENGTH: 15
  31 <212> TYPE: PRT
  33 <213> ORGANISM: HCV vaccines
  35 <400> SEQUENCE: 1
  37 Ala Ala Gln Gly Tyr Lys Val Leu Val Leu Asn Pro Ser Val Ala
  38 1               5                   10                  15
  40 <210> SEQ ID NO: 2
  42 <211> LENGTH: 17
  44 <212> TYPE: PRT
  46 <213> ORGANISM: HCV vaccines
  48 <400> SEQUENCE: 2
  50 Ala Ala Gln Gly Tyr Lys Val Leu Val Leu Asn Pro Ser Val Ala Ala
  51 1               5                   10                  15
  53 Thr
  56 <210> SEQ ID NO: 3
  58 <211> LENGTH: 15
  60 <212> TYPE: PRT
  62 <213> ORGANISM: HCV vaccines
  64 <400> SEQUENCE: 3
  66 Ala Ala Trp Tyr Glu Leu Thr Pro Ala Glu Thr Thr Val Arg Leu
  67 1               5                   10                  15
  69 <210> SEQ ID NO: 4
  71 <211> LENGTH: 16
  73 <212> TYPE: PRT
```

Does Not Comply
Corrected Diskette Needed

PP 6-7

```
 75 <213> ORGANISM: HCV vaccines
 77 <400> SEQUENCE: 4
 79 Ala Ala Trp Tyr Glu Leu Thr Pro Ala Glu Thr Thr Val Arg Leu Arg
 80 1               5                   10                  15
 82 <210> SEQ ID NO: 5
 84 <211> LENGTH: 15
 86 <212> TYPE: PRT
 88 <213> ORGANISM: HCV vaccines
 90 <400> SEQUENCE: 5
 92 Ala Phe Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val
 93 1               5                   10                  15
 95 <210> SEQ ID NO: 6
 97 <211> LENGTH: 15
 99 <212> TYPE: PRT
101 <213> ORGANISM: HCV vaccines
103 <400> SEQUENCE: 6
105 Ala Gly Ala Ala Trp Tyr Glu Leu Thr Pro Ala Glu Thr Thr Val
106 1               5                   10                  15
108 <210> SEQ ID NO: 7
110 <211> LENGTH: 9
112 <212> TYPE: PRT
114 <213> ORGANISM: HCV vaccines
116 <400> SEQUENCE: 7
118 Ala Arg Leu Ile Val Phe Pro Asp Leu
119 1               5
121 <210> SEQ ID NO: 8
123 <211> LENGTH: 20
125 <212> TYPE: PRT
127 <213> ORGANISM: HCV vaccines
129 <400> SEQUENCE: 8
131 Ala Arg Leu Ile Val Phe Pro Asp Leu Gly Val Arg Val Cys Glu Lys
132 1               5                   10                  15
134 Met Ala Leu Tyr
135             20
137 <210> SEQ ID NO: 9
139 <211> LENGTH: 10
141 <212> TYPE: PRT
143 <213> ORGANISM: HCV vaccines
145 <400> SEQUENCE: 9
147 Ala Tyr Ala Ala Gln Gly Tyr Lys Val Leu
148 1               5                   10
150 <210> SEQ ID NO: 10
152 <211> LENGTH: 13
154 <212> TYPE: PRT
156 <213> ORGANISM: HCV vaccines
158 <400> SEQUENCE: 10
160 Ala Tyr Ala Ala Gln Gly Tyr Lys Val Leu Ala Ala Thr
161 1               5                   10
163 <210> SEQ ID NO: 11
```

RAW SEQUENCE LISTING   DATE: 01/20/2006
PATENT APPLICATION: US/10/564,429   TIME: 12:07:31

Input Set : **E:\son084.txt**
Output Set: **N:\CRF4\01202006\J564429.raw**

```
165 <211> LENGTH: 16
167 <212> TYPE: PRT
169 <213> ORGANISM: HCV vaccines
171 <400> SEQUENCE: 11
173 Ala Tyr Ala Ala Gln Gly Tyr Lys Val Leu Pro Ser Val Ala Ala Thr
174 1               5                   10              15
176 <210> SEQ ID NO: 12
178 <211> LENGTH: 16
180 <212> TYPE: PRT
182 <213> ORGANISM: HCV vaccines
184 <400> SEQUENCE: 12
186 Ala Tyr Ala Ala Gln Gly Tyr Lys Val Leu Val Leu Asn Pro Ser Val
187 1               5                   10              15
189 <210> SEQ ID NO: 13
191 <211> LENGTH: 18
193 <212> TYPE: PRT
195 <213> ORGANISM: HCV vaccines
197 <400> SEQUENCE: 13
199 Ala Tyr Ala Ala Gln Gly Tyr Lys Val Leu Val Leu Asn Pro Ser Val
200 1               5                   10              15
202 Ala Ala
205 <210> SEQ ID NO: 14
207 <211> LENGTH: 19
209 <212> TYPE: PRT
211 <213> ORGANISM: HCV vaccines
213 <400> SEQUENCE: 14
215 Ala Tyr Ala Ala Gln Gly Tyr Lys Val Leu Val Leu Asn Pro Ser Val
216 1               5                   10              15
218 Ala Ala Thr
221 <210> SEQ ID NO: 15
223 <211> LENGTH: 9
225 <212> TYPE: PRT
227 <213> ORGANISM: HCV vaccines
230 <400> SEQUENCE: 15
232 Ala Tyr Ser Gln Gln Thr Arg Gly Leu
233 1               5
235 <210> SEQ ID NO: 16
237 <211> LENGTH: 10
239 <212> TYPE: PRT
241 <213> ORGANISM: HCV vaccines
244 <400> SEQUENCE: 16
246 Ala Tyr Ser Gln Gln Thr Arg Gly Leu Leu
247 1               5                   10
249 <210> SEQ ID NO: 17
251 <211> LENGTH: 9
253 <212> TYPE: PRT
255 <213> ORGANISM: HCV vaccines
258 <400> SEQUENCE: 17
260 Cys Ile Asn Gly Val Cys Trp Thr Val
```

RAW SEQUENCE LISTING   DATE: 01/20/2006
PATENT APPLICATION: US/10/564,429   TIME: 12:07:31

Input Set : E:\son084.txt
Output Set: N:\CRF4\01202006\J564429.raw

```
261 1                5
263 <210> SEQ ID NO: 18
265 <211> LENGTH: 15
267 <212> TYPE: PRT
269 <213> ORGANISM: HCV vaccines
272 <400> SEQUENCE: 18
274 Asp Ile Leu Ala Gly Tyr Gly Ala Gly Val Ala Gly Ala Leu Val
275 1                5                    10                   15
277 <210> SEQ ID NO: 19
279 <211> LENGTH: 9
281 <212> TYPE: PRT
283 <213> ORGANISM: HCV vaccines
286 <400> SEQUENCE: 19
288 Asp Leu Met Gly Tyr Ile Pro Ala Val
289 1                5
291 <210> SEQ ID NO: 20
293 <211> LENGTH: 9
295 <212> TYPE: PRT
297 <213> ORGANISM: HCV vaccines
300 <400> SEQUENCE: 20
302 Asp Leu Met Gly Tyr Ile Pro Leu Val
303 1                5
305 <210> SEQ ID NO: 21
307 <211> LENGTH: 10
309 <212> TYPE: PRT
311 <213> ORGANISM: HCV vaccines
314 <400> SEQUENCE: 21
316 Asp Leu Met Gly Tyr Ile Pro Ala Val Gly
317 1                5                    10
319 <210> SEQ ID NO: 22
321 <211> LENGTH: 10
323 <212> TYPE: PRT
325 <213> ORGANISM: HCV vaccines
328 <400> SEQUENCE: 22
330 Asp Leu Met Gly Tyr Ile Pro Leu Val Gly
331 1                5                    10
333 <210> SEQ ID NO: 23
335 <211> LENGTH: 12
337 <212> TYPE: PRT
339 <213> ORGANISM: HCV vaccines
341 <400> SEQUENCE: 23
343 Asp Leu Met Gly Tyr Ile Pro Ala Val Gly Ala Pro
344 1                5                    10
346 <210> SEQ ID NO: 24
348 <211> LENGTH: 12
350 <212> TYPE: PRT
352 <213> ORGANISM: HCV vaccines
354 <400> SEQUENCE: 24
356 Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro
```

```
357 1               5                    10
359 <210> SEQ ID NO: 25
361 <211> LENGTH: 13
363 <212> TYPE: PRT
365 <213> ORGANISM: HCV vaccines
368 <400> SEQUENCE: 25
370 Asp Leu Met Gly Tyr Ile Pro Ala Val Gly Ala Pro Leu
371 1               5                    10
373 <210> SEQ ID NO: 26
375 <211> LENGTH: 13
377 <212> TYPE: PRT
379 <213> ORGANISM: HCV vaccines
382 <400> SEQUENCE: 26
384 Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
385 1               5                    10
387 <210> SEQ ID NO: 27
389 <211> LENGTH: 14
391 <212> TYPE: PRT
393 <213> ORGANISM: HCV vaccines
396 <400> SEQUENCE: 27
398 Asp Leu Met Gly Tyr Ile Pro Ala Leu Val Gly Ala Pro Leu
399 1               5                    10
401 <210> SEQ ID NO: 28
403 <211> LENGTH: 9
405 <212> TYPE: PRT
407 <213> ORGANISM: HCV vaccines
410 <400> SEQUENCE: 28
412 Asp Leu Met Gly Tyr Ile Pro Ala Val
413 1               5
415 <210> SEQ ID NO: 29
417 <211> LENGTH: 9
419 <212> TYPE: PRT
421 <213> ORGANISM: HCV vaccines
424 <400> SEQUENCE: 29
426 Asp Leu Met Gly Tyr Ile Pro Leu Val
427 1               5
429 <210> SEQ ID NO: 30
431 <211> LENGTH: 11
433 <212> TYPE: PRT
435 <213> ORGANISM: HCV vaccines
438 <400> SEQUENCE: 30
440 Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala
441 1               5                    10
443 <210> SEQ ID NO: 31
445 <211> LENGTH: 13
447 <212> TYPE: PRT
449 <213> ORGANISM: HCV vaccines
452 <400> SEQUENCE: 31
454 Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
```

```
<210> 154
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:   Synthetic
      Peptide

<220>
<221> MOD_RES
<222> (1)..(11)
<223> ← insert this and which residue(s) Xaa's represent
<400> 154
Xaa Glx Xaa Glx Glx Glx Glx Glx Xaa Glx Xaa
 1               5                   10
```

Input Set : **E:\son084.txt**
Output Set: **N:\CRF4\01202006\J564429.raw**

Please Note:
**Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.**

Seq#:152; Xaa Pos. 1,3,7,9
Seq#:153; Xaa Pos. 1,3,8,10
Seq#:154; Xaa Pos. 1,3,9,11
Seq#:155; Xaa Pos. 1,3,10,12
Seq#:156; Xaa Pos. 1,3,11,13

```
L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:2269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152 after pos.:0
L:2288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:153 after pos.:0
L:2306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:154 after pos.:0
L:2325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:155 after pos.:0
L:2344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:156 after pos.:0
```